

Title (en)  
PIEZOELECTRIC ELEMENT AND ULTRASOUND SENSOR PROVIDED WITH SAME

Title (de)  
PIEZOELEKTRISCHES ELEMENT UND DAMIT AUSGESTATTETER ULTRASCHALLSENSOR

Title (fr)  
ÉLÉMENT PIÉZOÉLECTRIQUE ET CAPTEUR À ULTRASONS LE COMPORTANT

Publication  
**EP 3280156 A4 20181010 (EN)**

Application  
**EP 16772643 A 20160325**

Priority  
• JP 2015071943 A 20150331  
• JP 2016059652 W 20160325

Abstract (en)  
[origin: EP3280156A1] A piezoelectric element (50) includes a stack formed of a plurality of piezoelectric layers and having an upper surface (41) as a first main surface and a lower surface (46) as a second main surface facing in opposite directions along a stacking direction, the stack includes a transmission portion (40N), a reception portion (40M), and a separating portion that separates these portions from each other, an electrode (30) as a transmission electrode is arranged so as to cover a region of the first main surface corresponding to the transmission portion (40N), an electrode (10) as a reception electrode is arranged so as to cover a region of the first main surface corresponding to the reception portion (40M), and at least a part of a region of the first main surface corresponding to the separating portion is concave or convex in comparison with a region of the first main surface where the transmission electrode is arranged and a region of the first main surface where the reception electrode is arranged.

IPC 8 full level  
**H04R 17/00** (2006.01); **B06B 1/06** (2006.01); **H01L 41/053** (2006.01); **H01L 41/08** (2006.01); **H01L 41/083** (2006.01); **H01L 41/09** (2006.01); **H01L 41/113** (2006.01)

CPC (source: EP)  
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Citation (search report)  
• [Y] JP 2010154371 A 20100708 - HONDA ELECTRONIC  
• [Y] JP 2014239238 A 20141218 - KYOCERA CORP  
• See also references of WO 2016158762A1

Designated contracting state (EPC)  
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